

ATTORNEYS AT LAW  
A PROFESSIONAL CORPORATION  
1000 EAGLE GATE TOWER  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111  
TELEPHONE (801) 533-9800  
FACSIMILE (801) 328-1707

A PROFESSIONAL CORPORATION  
1000 EAGLE GATE TOWER  
60 EAST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84111  
TELEPHONE (801) 533-9800  
FACSIMILE (801) 328-1707



RICK D. NYDEGGER  
DAVID O. SEELEY  
BRENT P. LORMER  
THOMAS R. VUKSINICK  
LARRY R. LAYCOCK  
JONATHAN W. RICHARDS  
DAVID R. WRIGHT  
JOHN C. STRINGHAM  
JOHN M. GUYNIN  
CHARLES L. ROBERTS  
GREGORY M. TAYLOR  
DANA L. TANGREN  
ERIC L. MASCHOFF  
CHARLES J. VEVERKA  
ROBYN L. PHILLIPS  
RICHARD C. GILMORE†  
DAVID B. DELLENBACH  
R. BURNS ISRAELSEN  
DAVID R. TODD  
L. DAVID GRIFFIN

JESUS JUANOS I TIMONEDA, Ph.D.  
ADRIAN J. LEE  
FRASER D. ROY  
CARL T. REED  
R. PARRISH FREEMAN, JR.  
PETER F. MALEN, JR.  
L. REX SEARS, Ph.D.  
ERIC M. KAMERATH  
ROBERT E. AYCOCK  
JENS C. JENKINS  
KEVIN W. STINGER  
WILLIAM J. ATHAY  
MICHAEL B. DODD  
WILLIAM R. RICHTER  
TRENT H. BAKER  
RYAN D. BENSON  
SARA D. JONES  
TIGHE KELLER

† ADMITTED ONLY IN CALIFORNIA

PATENTS  
TRADEMARKS  
COPYRIGHTS  
TRADE SECRETS  
UNFAIR COMPETITION  
LICENSING  
COMPLEX LITIGATION

MAILING ADDRESS:  
P.O. BOX 45862  
SALT LAKE CITY, UT 84145

## INTERNET

HOME PAGE: <http://www.wnspatent.com>  
GENERAL E-MAIL: [info@wnspatent.com](mailto:info@wnspatent.com)

PATENT APPLICATION  
Docket No: 15689.66

In re application of

Teruya Fujii

Serial No.: 09/784,472

Filing Date: February 15, 2001

Confirmation No.: 2808

For:

# LEADING WAVE POSITION DETECTING UNIT, RECEIVER, LEADING POSITION DETECTING UNIT, LEADING WAVE POSITION DETECTING METHOD AND LEADING POSITION DETECTING METHOD

TRANSMITTAL FOR REVOCATION AND SUBSTITUTE POWER OF ATTORNEY  
and CHANGE OF ATTORNEY DOCKET NUMBER

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

Transmitted herewith for filing is a Revocation and Substitute Power of Attorney and Change of Attorney Docket Number. Please address all future correspondence in connection with the above-identified patent application to the attention of the undersigned. Triplicate copies of this letter are enclosed.

Dated this 25th day of October, 2002.

Respectfully submitted,

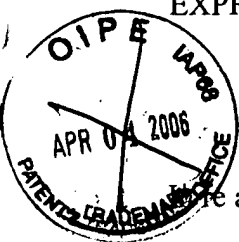


ADRIAN J. LEE  
Attorney for Applicant  
Registration No. 42,785



**022913**

PATENT TRADEMARK OFFICE



EXPRESS MAILING LABEL NO. EV 100 810 195 US

## PATENT APPLICATION

Docket No: 15689.66

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

More application of

Teruya Fujii

Serial No.: 09/784,472

Filing Date: February 15, 2001

Confirmation No.: 2808

For: LEADING WAVE POSITION DETECTING UNIT, RECEIVER, LEADING POSITION DETECTING UNIT, LEADING WAVE POSITION DETECTING METHOD AND LEADING POSITION DETECTING METHOD

Art Unit  
2644

## REVOCATION AND SUBSTITUTE POWER OF ATTORNEY

Honorable Commissioner of Patents  
and Trademarks  
Washington, DC 20231

Sir:

The undersigned, Yoshitaro Shimanuki, declares: that he is the Intellectual Property Executive Manager of NTT DoCoMo, Inc., and that he is authorized to execute this Revocation and Substitute Power of Attorney on behalf of NTT DoCoMo, Inc.; and that NTT DoCoMo, Inc. is the assignee of the entire interest of the above-identified application, as shown by the assignment recorded in the United States Patent Office at Reel 011561, Frame 0277, a copy of said assignment is attached at Exhibit A hereto; and that the attached assignment has been reviewed by him, and to the best of his knowledge and belief title is in the assignee NTT DoCoMo, Inc.. The assignee, NTT DoCoMo, Inc., hereby revokes all previous powers of attorney in the above-identified application, and now hereby appoints all attorneys under customer number:



022913

PATENT TRADEMARK OFFICE

of WORKMAN, NYDEGGER & SEELEY, 1000 Eagle Gate Tower, 60 East South Temple, Salt Lake City, Utah 84111, as attorneys with full power of substitution and revocation, to prosecute said application, to make alterations and amendments therein, to receive the Letters Patent, and to transact all business in the Patent and Trademark Office connected therewith. The declarant further declares that all statements made herein of his own knowledge are true; and further that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful, false statements may jeopardize the validity of the application or any patent issuing thereon. All correspondence and telephonic communications should be directed to:

ADRIAN J. LEE  
WORKMAN, NYDEGGER & SEELEY  
1000 Eagle Gate Tower  
60 East South Temple  
Salt Lake City, Utah 84111

All previous powers of attorney are hereby revoked.

Signed this \_\_\_\_ day of September, 2002.

*Yoshitaro Shimanuki*

---

Yoshitaro Shimanuki  
Intellectual Property Executive Manager  
NTT DoCoMo, Inc.  
11-1, Nagatacho 2-Chome  
Chiyoda-Ku  
Tokyo 100-6150, Japan



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

3815/117

JUNE 05, 2001

PTAS

BROWN RAYSMAN MILLSTEIN ET AL  
MATTHEW J. MARQUARDT  
120 WEST 45TH STREET  
NEW YORK, NY 10036



\*101705618A\*

## CORRECTED NOTICE

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 02/15/2001

REEL/FRAME: 011561/0277

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FUJII, TERUYA

DOC DATE: 02/09/2001

ASSIGNEE:

NTT DOCOMO, INC.  
11-1, NAGATACHO 2-CHOME  
CHIYODA-KU  
TOKYO, JAPAN 100-6150

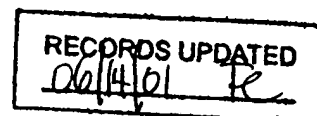
SERIAL NUMBER: 09784472

FILING DATE: 02/15/2001

PATENT NUMBER:

ISSUE DATE:

PEARLENE FOSTER, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



06-01-2001

Attorney Docket No.: 3815/

DEPARTMENT OF COMMERCE  
Patent and Trademark Office

R.



101705618

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Teruya FUJII

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other \_\_\_\_\_

Execution Date: February 9, 2001

2. Name and address of receiving party(ies):

Name: NTT Docomo, Inc.

Internal Address: \_\_\_\_\_

Street Address: 11-1, Nagatacho 2-chome,  
Chiyoda-ku,

City: Tokyo State: Japan ZIP: 100-6150

Additional name(s) & address(es) attached? ☐ Yes ☐ No

4. Application number(s) or patent number(s)

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

09/784470

Additional numbers attached? ☐ Yes ☐ No

5. Name and address of party to whom  
correspondence concerning document should be  
mailed:

BROWN RAYSMAN MILLSTEIN FELDER &  
STEINER LLP

120 West 45th Street

New York, New York 10036

(212) 944-1515  
00000031 09784472

40.00 OP

6. Total number of applications and patents  
involved: 1

7. Total fee (37 CFR 3.41):..... \$ 40.00

☒ Check enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number: 02-4270

(Attach duplicate copy of this page by deposit account)

Please charge any additional fees required, or credit any  
overpayment, to the above deposit account

DO NOT USE THIS SPACE

9. Statement and signature.

*To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy  
is a true copy of the original document.*

Matthew J. Marquardt

Name of Person Signing

[Signature]

Signature

15 February 2001

Date

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

PTO 09/784472 U.S. 02/15/01



FC:581

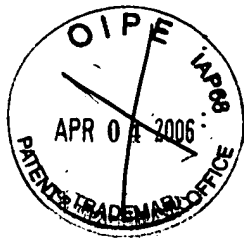
**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of : Teruya FUJII

Appln. No. : 09/784,472

Examiner: Not yet assigned

Filed



February 15, 2001

Group Art Unit: 2644

Title

LEADING WAVE POSITION DETECTING UNIT, RECEIVER,  
LEADING POSITION DETECTING UNIT, LEADING WAVE  
POSITION DETECTING METHOD AND LEADING POSITION  
DETECTING METHOD**BOX ASSIGNMENTS**

Assistant Commissioner for Patents

Washington, D.C. 20231

MAY 24 2001

**REQUEST FOR CORRECTED ASSIGNMENT RECORDATION DOCUMENT**

We noticed an error in the Notice of Recordation of Assignment Document for the application identified above. Please correct the following error:

**IN THE ASSIGNOR SECTION**

Change --FUJLL-- to "FUJII".

A copy of the Notice of Recordation of Assignment Document with the change noted thereon is enclosed, along with a copy of the assignment. As can be seen, the error was made on the part of the Office. Accordingly, no fee is believed to be due. In the event a fee is due, the Commissioner is hereby authorized to charge any deficiency in fee to the undersigned attorney's Deposit Account No. 02-4270.

Issuance of a corrected Notice of Recordation of Assignment Document is respectfully requested.

Respectfully submitted,

Dated: May 22, 2001

Ralph F. Hoppin  
Ralph F. Hoppin  
Reg. No.: 38,494  
BROWN RAYSMAN MILLSTEIN  
FELDER & STEINER LLP  
120 West Forty-Fifth Street  
New York, New York 10036  
(212) 944-1515

I hereby certify that this paper is being deposited this date with the U.S. Postal Service as First Class Mail addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231

Ralph F. Hoppin  
Ralph F. Hoppin

May 22, 2001  
Date

## ASSIGNMENT

WHEREAS, I, Teruya FUJII, a citizen of Japan, residing at 18-21-103, Tokiwa 10-chome, Urawa-shi, Saitama 336-0001, Japan; have invented one or more inventions disclosed in an application for Letters Patent of the United States titled

LEADING WAVE POSITION DETECTING UNIT, RECEIVER, LEADING POSITION DETECTING UNIT, LEADING WAVE POSITION DETECTING METHOD AND LEADING POSITION DETECTING METHOD

(hereinafter referred to as "said application"), said application having been filed herewith.

WHEREAS, NTT DoCoMo, Inc., (hereinafter referred to as "the Assignee"), a Japanese corporation, having a place of business at 11-1, Nagatacho 2-chome, Chiyoda-ku, Tokyo 100-6150, Japan; is desirous of obtaining all right, title and interest in, to and under said invention(s) and said application; and

NOW, THEREFORE, for good and valuable considerations, the receipt and sufficiency of which we hereby acknowledge, we have sold, assigned, transferred and set over, and by these presents hereby sell, assign, transfer and set over to the Assignee all right, title and interest in, to and under said invention(s) and said application, including the right to apply for any Letters Patent of the United States of America and in any and all foreign countries on said invention(s), and any and all other applications for Letters Patent on said invention(s), in whatsoever countries, including all divisional, renewal, substitute, continuation, continuation-in-part and convention applications based in whole or in part upon said invention(s) or upon said application, and any and all Letters Patent which may issue thereon. We hereby covenant and agree that we will, upon request of the Assignee, communicate to the Assignee any facts known to us relating to said invention(s) and the history thereof, testify in any legal proceeding, execute all lawful papers including without limitation all divisional, continuing and reissue applications and all rightful oaths and declarations, and generally do all further acts which may be deemed necessary by the Assignee to obtain and enforce proper patent protection for said invention(s) in all countries.

IN TESTIMONY WHEREOF, I have executed this document on the date indicated below.



Date: February 9, 2001

Teruya Fujii  
(Signature) Teruya FUJII

EXPRESS MAILING LABEL NO. EV 100 810 195 US

PATENT APPLICATION

Docket No: 15689.66

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of		)
		)
	Teruya Fujii	)
		)
Serial No.:	09/784,472	) Art Unit
		) 2644
Filing Date:	February 15, 2001	)
		)
Confirmation No.:	2808	)
		)
For:	LEADING WAVE POSITION DETECTING	)
	UNIT, RECEIVER, LEADING POSITION	)
	DETECTING UNIT, LEADING WAVE	)
	POSITION DETECTING METHOD AND	)
	LEADING POSITION DETECTING METHOD	)

CHANGE OF ATTORNEY DOCKET NUMBER

Honorable Commissioner of Patents  
and Trademarks  
Washington, D. C. 20231

Sir:

For convenience and ready identification of the papers received in connection with the above-identified patent application, please reference in all future communications my Docket No. 15689.66. All communications should remain addressed to the undersigned:

ADRIAN J. LEE  
WORKMAN, NYDEGGER & SEELEY  
1000 Eagle Gate Tower  
60 East South Temple  
Salt Lake City, Utah 84111  
(801) 533-9800

Dated this 25<sup>th</sup> day of October, 2002.

Respectfully submitted,



ADRIAN J. LEE  
Attorney for Applicant  
Registration No. 42,785



**022913**

PATENT TRADEMARK OFFICE

AJL:jrij

EXPRESS MAILING LABEL NO. EV 100 810 195 US

PATENT APPLICATION

Docket No: 15689.66



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

application of )  
)  
Teruya Fujii )  
)  
Serial No.: 09/784,472 ) Art Unit  
) 2644  
Filing Date: February 15, 2001 )  
)  
Confirmation No.: 2808 )  
)  
For: LEADING WAVE POSITION DETECTING )  
UNIT, RECEIVER, LEADING POSITION )  
DETECTING UNIT, LEADING WAVE )  
POSITION DETECTING METHOD AND )  
LEADING POSITION DETECTING METHOD )

CERTIFICATE OF EXPRESS MAILING UNDER 37 C.F.R. § 1.10

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 in an envelope addressed to: Assistant Commissioner for Patents, Washington, DC 20231, on this 25th day of October, 2002:

- Transmittal for Revocation and Substitute Power of Attorney and Change of Attorney Docket No. (2 pages, in triplicate)
- Revocation and Substitute Power of Attorney and Exhibit A (7 pages)
- Change of Attorney Docket Number (2 pages)
- Postcard

Respectfully submitted,

ADRIAN J. LEE  
Attorney for Applicant  
Registration No. 42,785



022913

PATENT TRADEMARK OFFICE